10/619,688
PATENT COOPERATION TREATY

From the INTERNATIONAL PRELIMINARY EXA	AMINING AUTHORITY		FILE COPY		
To: MICHAEL B. HURD SHOOK, HARDY & BACON, L.L.P. 2555 GRAND BLVD. KANSAS CITY, MO 64108-2613		PCT			
KANSAS CITT, MO 04100-2015		WRITTEN OPINION			
		(PCT Rule 66)			
		Date of Mailing (day/month/year)			
Applicant's or agent's file reference		REPLY DUE within 2 months/days from			
CTSZ106510/5	1 (1)	the above date of mailing			
International application No.	International filing date	(day/month/year)	Priority date (day/month/year)		
PCT/US03/21893	15 July 2003 (15.07.200		15 July 2002 (15.07.2002)		
International Patent Classification (IPC)	or both national classificat	tion and IPC			
IPC(7): B01F 5/06; F28F 13/06 and US	Cl.: 366/337, 338				
Applicant					
SULZER CHEMTECH USA, INC.					
 This written opinion is the <u>first</u> (first, etc.) drawn by this International Preliminary Examining Authority. This opinion contains indications relating to the following items: Basis of the opinion Priority Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Lack of unity of invention 					
citations and expla	anations supporting such s		ry, inventive step or industrial applicability;		
VI Certain documents	s cited				
VII Certain defects in	the international applicati	on			
VIII Certain observation	ons on the international ap	plication			
The applicant is hereby invited	ed to reply to this opinion	ı.			
	imit indicated above. The to grant an extension. Se		ore the expiration of that time limit, request		
How? By submitting a written reply, accompanied, where appropriate, by amendments, according to Rule 66 For the form and the language of the amendments, see Rules 66.8 and 66.9.					
Also For an additional opportunity to submit amendments, see Rule 66.4. For the examiner's obligation to consider amendments and/or arguments, see Rule 66.4 bis. For an informal communication with the examiner, see Rule 66.6					
If no reply is filed, the international preliminary examination report will be established on the basis of this opinion.					
4. The final date by which the international preliminary examination report must be established according to Rule 69.2 is: 15 November 2004 (15.11.2004)					
Name and mailing address of the IPEA	/US	Authorized office	P () L.		
Mail Stop PCT, Attn: IPEA/US Commissioner for Patents		Authorized officer Cov			
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Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230		Telephone No. (571) 272-1700			

Form PCT/IPEA/408 (cover sheet)(July 1998)

8 APR 2004

WRITTEN OPINION

International application No.

PCT/US03/21893

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I.	Basis of the opinion	
1.	With regard to the elements of the international application:*	
	the international application as originally filed the description: pages 1-6 , as originally filed pages NONE , filed with the demand pages NONE , filed with the letter of	
	the claims: pages 7-9, as originally filed pages NONE, as amended (together with any statement) under Article 19 pages NONE, filed with the demand pages NONE, filed with the letter of	
	the drawings: pages 1-6 , as originally filed pages NONE , filed with the demand pages NONE , filed with the letter of	
	the sequence listing part of the description: pages NONE, as originally filed pages NONE, filed with the demand pages NONE, filed with the letter of	
2.	With regard to the language, all the elements marked above were available or furnished to the language in which the international application was filed, unless otherwise indicated under the These elements were available or furnished to this Authority in the following language	
	the language of a translation furnished for the purposes of international search (under R the language of publication of the international application (under Rule 48.3(b)). the language of the translation furnished for the purposes of international preliminary ex 55.2 and/or 55.3).	
3.	With regard to any nucleotide and/or amino acid sequence disclosed in the international apopinion was drawn on the basis of the sequence listing:	plication, the written
	contained in the international application in printed form. filed together with the international application in computer readable form. furnished subsequently to this Authority in written form. furnished subsequently to this Authority in computer readable form. The statement that the subsequently furnished written sequence listing does not go beyo international application as filed has been furnished. The statement that the information recorded in computer readable form is identical to the	
4.	has been furnished. The amendments have resulted in the cancellation of:	
5.	the description, pages NONE the claims, Nos. NONE the drawings, sheets/fig NONE This opinion has been drawn as if (some of) the amendments had not been made, since they have beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).	been considered to go
	Replacement sheets which have been furnished to the receiving Office in response to an invitation under sopinion as "originally filed."	Article 14 are referred to in

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NO

V.	Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability
	citations and explanations supporting such statement

Novelty (N) Claims None Claims 1-25 YES NO Inventive Step (IS) Claims None YES NO Industrial Applicability (IA) Claims 1-25 YES

2. CITATIONS AND EXPLANATIONS

Claims 1-25 lack novelty under PCT Article 33(2) as being anticipated by EP 1067352 A1 which discloses the recited static mixer and method including multiple grids and a connector in Figure 1.

Claims NONE

Claims 1-2, 7-14, and 17-25 lack novelty under PCT Article 33(2) as being anticipated by Horner (US 4,093,188) which discloses the recited static mixer and method including multiple grids and a connector in Figures 1-5.

Claims 1-2, 7-14, and 17-25 lack novelty under PCT Article 33(2) as being anticipated by Doom (US 4,072,296) which discloses the recited static mixer and method including multiple grids and a connector in Figures 1-4.

Claims 1-25 meet the criteria set out in PCT Article 33(4), and thus possess industrial applicability because the subject matter claimed can be made or used in industry such as in the mixing of a fluid stream within a conduit.

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	Supplemental Box (To be used when the space in any of the preceding boxes is not sufficient)				
	TIME LIMIT: The time limit set for response to a Written Opinion may not be extended. 37 CFR 1.484(d). Any response received after the expiration of the time limit set in the Written Opinion will not be considered in preparing the International Preliminary Examination Report.				
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